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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 01

of 18

**Complete if Known**

Application Number	10/810,410
Filing Date	March 26, 2004
First Named Inventor	Ismail Lakkis
Art Unit	2611
Examiner Name	Kevin Kim
Attorney Docket Number	00287

## U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-			
		US- 4001693	01-1977	Stackhouse et al.	
		US- 4039972	08-02-1977	Scholten et al.	
		US- 4278978	06-14-1981	Easterling et al.	
		US- 4317210	02-23-1982	Dekker et al.	
		US- 4498174	02-1985	LeGresley	
		US- 4569052	02-1986	Cohen et al.	
		US- 4707839	11-17-1987	Andren et al.	
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		US- 4860003	08-22-1989	DeLuca et al.	
		US- 4905234	02-27-1990	Childress et al.	
		US- 5041836	08-20-1991	Paschen et al.	
		US- 5087835	02-11-1992	Hattangadi	
		US- 5109390	04-28-1992	Gilhouses et al.	
		US- 5170412	12-08-1992	Massey	
		US- 5177765	01-1993	Holland et al.	
		US- 5177767	01-1993	Kato	
		US- 5260976	11-09-1993	Doivo et al.	
		US- 5377223	12-1994	Schilling	

## FOREIGN PATENT DOCUMENTS

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Sheet 02

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		US- 5389939	02-14-1995	Tang et al.	
		US- 5396110	03-07-1995	Houston	
		US- 5416767	05-1995	Koppelaar et al.	
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		US- 5467367	11-1995	Izumi et al.	
		US- 5555183	09-10-1996	Willard et al.	
		US- 5561468	10-01-1996	Bryan et al.	
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		US- 5784387	07-21-1998	Widmer	
		US- 5787118	07-28-1998	Ueda	

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		US-5790591	08-1998	Gold et al.	
		US-5793756	08-11-1998	Ayerst et al.	
		US-5809060	09-1998	Cafarella et al.	
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		US-5926503	06-20-1999	Kelton et al.	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 6034987	03-2000	Chennakeshu et al.	
		US- 6049707	04-11-2000	Buer et al.	
		US- 6064663	05-16-2000	Honkasalo et al.	
		US- 6067290	05-23-2000	Paulraj et al.	
		US- 6078576	06-20-2000	Schilling et al.	
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		US- 6198327	03-06-2001	Takahashi	
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		US- 6215777	04-2001	Chen et al.	

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Sheet	05
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		US-6215814	04-10-2001	Ylitalo et al.	
		US-6222832	04-2001	Proctor	
		US-6256508	07-2001	Nakagawa	
		US-6259687	07-10-2001	Lomp et al.	
		US-6298092	10-02-2001	Heath, Jr.	
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		US-6388997	05-2002	Logan	
		US-6392500	05-2002	McCallister et al.	

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	US-	6392500	05-2002	McCallister et al.	
	US-	6430170	08-2002	Saints et al.	
	US-	6459728	10-01-2002	Bar-David et al.	
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		US- 6657551	12-2003	Huckaba et al.	
		US- 6683955	01-27-2004	Horne	
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Filing Date	March 26, 2004
First Named Inventor	Ismail Lakkis
Art Unit	2611
Examiner Name	Kevin Kim
Attorney Docket Number	00287

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 6937667	08-30-2005	Fullerton et al.	
		US- 6904110	06-2005	Trans et al.	
		US- 6941378	09-2005	Apostolopoulos et al.	
		US- 6944232	09-2005	Koga et al.	
		US- 6946981	09-20-2005	Zilberman et al.	
		US- 6947498	09-2005	Reed	
		US- 6952444	10-2005	Segal et al.	
		US- 6952456	10-2005	Aiello et al.	
		US- 6990348	01-24-2006	Benveniste	
		US- 7046187	05-16-2006	Fullerton et al.	
		US- 7050508	05-2006	Sorrells	
		US- 7072413	07-2006	Wallon et al.	
		US- 7076168	07-2006	Shattil	
		US- 7076927	07-2006	Trpkovski	
		US- 7088795	08-2006	Aiello et al.	
		US- 7123843	10-2006	Meiick et al.	
		US- 7145954	12-2006	Pendergrass et al.	
		US- 7154955	12-2006	Suwa et al.	
		US- 7206349	04-2007	Linnartz et al.	

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Sheet 09 of 18

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		US- 7209523	04-2007	Larrick et al.	
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		US- 2001/0017563	08-30-2001	Kim	
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		US- 2001/0026584	10-2001	Sommer et al.	
		US- 2001/0025361	09-27-2001	Kim	
		US- 2005/0053121	03-2005	Lakkis	
		US- 2005/0084031	04-21-2005	Rosen et al.	
		US- 2005/0105594	05-2005	Giannakis et al.	
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		US- 2005/0159129	07-21-2005	Iida	
		US- 2005/0207351	09-22-2005	Inagawa	
		US- 2006/0039317	02-2006	Subramanian et al.	
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		US- 2004/0239562	12-02-2004	Schantz	
		US- 2005/0031045	02-2005	Mayor et al.	

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of 18

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		US 2001/0050623	12-2001	Kalman	
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		US 2001/0038674	11-2001	Trans	
		US 2001/0040931	11-2001	Samuel et al.	
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		US 2002/0042899	04-11-2002	Tzannes et al.	
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		US 2002/0126769	09-2002	Jett et al.	
		US 2002/0146994	10-2002	Marrah et al.	
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Sheet 11

of 118

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		US- 2003/0048840	03-2003	Ling et al.	
		US- 2003/0053555	03-20-2003	McCorkle et al.	
		US- 2003/0067963	04-10-2003	Miller et al.	
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		US- 2003/0108133	06-12-2003	Richards	
		US- 2003/0104788	06-05-2003	Kim	
		US- 2003/0128776	07-2003	Rawlins et al.	
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		US- 2004/0057575	03-25-2004	McCarty	

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of 18

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	US-	2004/0070433	04-2004	Adams et al.	
	US-	2004/0071249	04-2004	Schell	
	US-	2004/0086027	05-2004	Shattil	
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	US-	2004/0098659	05-20-2004	Bjerke et al.	
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	US-	2004/0153938	08-05-2004	Okamura et al.	
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Sheet 13

of 18

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		AIJANEN, JUSSI et al. "Frame Configuration Impact to the Performance of ULTRA TDD System" University of Jyväskylä, Dep. of Mathematical Information Technology, pp. 1-5.	
		ARGYROPOULOS et al., Dynamic Channel Allocation in Interference-Limited Cellular Systems with Uneven Traffic Distribution, IEEE Transactions on Vehicular Technology, Vol. 48, No. 1, January 1999, Pages 224-232.	
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Sheet 14 of 18

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		CELIK, A New Method to Reduce Error Propagation In Decision Feedback Equalizer, UCI Proceedings of International Conference on Signal Processing, ISSN 1304-2386, Vol. 1, No. 2, September 2003, Pages 213-216.	
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		DREWES et al., Adaptive Equalization for Wireless ATM, 13th International Conference on Digital Signaling Processing (DSP '97), Santorini, Greece, July 1997, 4 pages.	
		ERTEL, et al., Overview of Spatial Channel Models for Antenna Array Communication Systems, IEEE Personal Communications, February 1998, Pages 10-22.	

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Sheet 15

of 18

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		FUJII et al., Implementation of Space-Time Equalizer Using Multiple Single-Constrained SMI Array Processors and MLSE, IEEE Transactions on Wireless Communications, Vol. 1, No. 2, April 2002, Pages 333-341.	
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STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/810,410
Filing Date	March 26, 2004
First Named Inventor	Ismail Lakkis
Art Unit	2611
Examiner Name	Kevin Kim
Attorney Docket Number	00287

Sheet 16

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**NON PATENT LITERATURE DOCUMENTS**

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		LE MARTRET, et al., All-Digital Impulse Radio with Multisuser Detection for Wireless Cellular Systems, IEEE Transactions on Communications, Vol. 50, No. 9, September 2002, Pages 1440-1450.	
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